

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference DAK/HC/P9038WO	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/GB 03/00839	International filing date (day/month/year) 28/02/2003	(Earliest) Priority Date (day/month/year) 31/07/2002
Applicant XP PLC		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 7 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing :

contained in the international application in written form.

filed together with the international application in computer readable form.

furnished subsequently to this Authority in written form.

furnished subsequently to this Authority in computer readable form.

the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. Certain claims were found unsearchable (See Box I).

3. Unity of invention is lacking (see Box II).

4. With regard to the title,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

UNINTERRUPTIBLE POWER SUPPLY APPARATUS AND METHOD

5. With regard to the abstract,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

as suggested by the applicant.

because the applicant failed to suggest a figure.

because this figure better characterizes the invention.

1

None of the figures.

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Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

An uninterruptible power supply device (114) for supplying electrical energy to one of an array of loads (112) having a broad range of power requirements, the uninterruptible power supply device (114) including: at least one power means (118) for providing electrical energy for the said one load (112), and control means (116), connected to the or each power means (118) and the load (112) wherein; the or each power means (118) incorporates a plurality of electrical potential energy storage units (124), and the control means (116) is arranged to connect the electrical potential energy storage units (124) according to the power required by the load (112), the same power means being employable for each one of the array of loads (112).

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International Application No
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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H02J9/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H02J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/061822 A (LIEBERT CORP) 23 August 2001 (2001-08-23) page 3, line 2 - page 6, line 17; figures 2,3 page 6, line 29 - page 7, line 4 page 11, line 1 - page 12, line 2 page 24, line 23 - page 25, line 7	1,2, 17-19,30
Y	-----	3,15
X	US 5 332 927 A (PAUL STEVEN ET AL) 26 July 1994 (1994-07-26) column 6, line 62 - column 7, line 17; figure 3 column 10, line 16 - line 29	28
Y	----- -/-	3,15

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

25 November 2003

05.02.04

Name and mailing address of the ISA

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INTERNATIONAL SEARCH REPORT

International Application No
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 295 215 B1 (AKBARI EDWARD ET AL) 25 September 2001 (2001-09-25) column 5, line 66 - line 39; figure 3 -----	30
X	WO 01/093403 A (VARENNES CHRISTIAN DE ;DUGUAY LOUIS (CA); GOT PIERRE (CA); ASTEC I) 6 December 2001 (2001-12-06) abstract; figure 1 page 1, line 12 - line 35 page 5, line 19 - page 7, line 8 -----	1
A	WO 01/073914 A (EDEVOLD CRAIG ;LAYDEN DAVID (US); POWERWARE CORP (US); WINCH CARY) 4 October 2001 (2001-10-04) abstract paragraph [0005] - paragraph [0006] paragraph [0062] -----	
A	GB 1 515 577 A (MASSACHUSETTS INST TECHNOLOGY) 28 June 1978 (1978-06-28) abstract page 1, line 13 - line 39 column 3, line 98 - line 112 -----	
A	DE 42 37 835 A (SIEBERTH WULF DIETRICH DIPL IN ;DURAS JOCHEN DIPL ING (DE)) 5 May 1994 (1994-05-05) the whole document -----	
A	US 5 994 795 A (GABILLET JEAN-PAUL) 30 November 1999 (1999-11-30) column 1, line 44 - line 59; figure 2A -----	

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: 37
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-19, 21, 28-30

Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-19, 21, 28-30

1.1. claims: 1-14, 21

UPS device comprising power means and control means; the power means incorporates a plurality of electrical energy storage means, each storage unit providing the same electrical potential energy; the control means is arranged to connect the electrical potential storage units according to the power required by the load, the same power means being employable for each one of the array of the loads.

1.2. claims: 28-29; 15-16

Provision of dual mains input for an UPS

1.3. claims: 30; 17-19

Provision of bypass capability for an UPS

2. claims: 31-33; 22-24

Provision of a rotating LCD display unit for an UPS

3. claims: 34-36; 20; 25-27

Provision of multi-format design for an UPS: modular units being configurable into rack-mount or standalone format

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Information on patent family members

International Application No

PCT/03/00839

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 0161822	A 23-08-2001	AU 4155901	A	27-08-2001
		EP 1258070	A2	20-11-2002
		WO 0161822	A2	23-08-2001
		US 2001033502	A1	25-10-2001
US 5332927	A 26-07-1994	US 5198698	A	30-03-1993
		CA 2103582	A1	12-08-1992
		EP 0659306	A1	28-06-1995
		JP 6507539	T	25-08-1994
		WO 9214292	A1	20-08-1992
US 6295215	B1 25-09-2001	NONE		
WO 0193403	A 06-12-2001	US 6281602	B1	28-08-2001
		AU 7375301	A	11-12-2001
		WO 0193403	A2	06-12-2001
WO 0173914	A 04-10-2001	US 6310783	B1	30-10-2001
		AU 4959301	A	08-10-2001
		EP 1269205	A2	02-01-2003
		WO 0173914	A2	04-10-2001
		US 2002136042	A1	26-09-2002
GB 1515577	A 28-06-1978	US 3909685	A	30-09-1975
		CA 1022617	A1	13-12-1977
DE 4237835	A 05-05-1994	DE 4237835	A1	05-05-1994
US 5994795	A 30-11-1999	FR 2762456	A1	23-10-1998
		CA 2233410	A1	21-10-1998
		DE 69809833	D1	16-01-2003
		DE 69809833	T2	14-08-2003
		EP 0874440	A1	28-10-1998
		ES 2186978	T3	16-05-2003
		JP 10309043	A	17-11-1998